

# 87% Efficient!

# MPO-IQ™

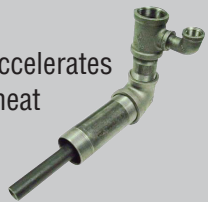


## Oil Fired, Chimney Vented, Cast Iron Water Boiler

- 87% AFUE, ENERGY STAR® certified
- 3-pass cast iron sectional design
- Easy, intelligent IQ Control System™
- Outdoor reset available – increases efficiency by 15-20%
- Honeywell digital oil primary control on both Beckett and Carlin EZ-Pro
- Five sizes available, 0.60-1.60 GPH
- Direct vent option kit available in three sizes (1.00-1.60 GPH)
- Easy installation and servicing; Reversible swing away burner door, no target wall/blanket, removable rear plates provide direct access to flue passages
- Lifetime limited warranty

ECM Circulator included (Taco or Grundfos)  
**\$100+ value at no extra charge!**

Return blending manifold accelerates water mixing and protects heat exchanger



### IQ control system

- Consists of the Intelligent Oil Boiler Control and IQ Option Panel

#### Intelligent Oil Boiler Control

- Provides fast and easy “out of the box” installation
- Simple codes convey boiler status and eliminate guesswork
- Two customizable integrated switching relays for easy integration of additional heating zone or indirect water heater

#### IQ Option Panel

- Enables the easy plug & play installation of optional features such as outdoor reset, LWCO, and high limit



#### Optional Touchscreen

- LCD displays all boiler settings, diagnostics, and troubleshooting in sentences, not codes



Honeywell digital oil primary is available on Beckett and Carlin EZ-Pro burners

# U.S. Boiler Company

# MPO-IQ: Technical Information



## Standard Equipment

- Precision cast and machined sections
- Return blending manifold
- Stylish, countoured, powder coated steel jacket
- Molded plastic control cover
- Insulated jacket (3")
- Reversible cast iron swing-away burner door
- Vacuum-formed burner door insulation
- Insulated, removable clean-out ports
- Integrated lifting legs
- Mounted and wired controls


- 30# relief valve
- Barometric draft regulator
- Boiler drain valve
- ECM circulator

## IQ Oil Boiler Control

- 3-digit LED readout displays boiler status, settings, and error codes for easy set-up and troubleshooting
- Adjustable high limit and differential
- 120V input for indirect water heater or 2nd heating zone

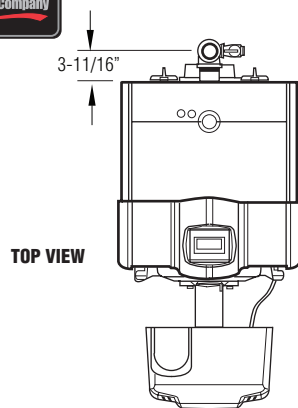
- 120V output for indirect or second zone circulator
- Selectable, adjustable circulator pre-purge & post-purge
- Displays diagnostic and status info from primary control (when equipped with Carlin or Beckett burner)
- Concealed junction box in rear of boiler
- Accepts plug & play IQ Option Cards for simple installation of Outdoor Reset, Low Water Cutoff, & Aux. High Limit
- 3-digit display for option card settings, status and diagnostics.

## MPO-IQ Ratings & Specifications

Model	 AFUE (%)	Burner Cap. (GPH)	DOE Heating Cap. (MBH)	Net AHRI Water Rating (MBH)	Flue Collar (In.)	Min. Chimney Diameter (In.)	Water Content (Gal.)	Approx. Shipping Weight. (lbs.)	(DV) Approx. Shipping Weight (lbs.)
MPO-IQ84B	87	0.60	74	64	5	6	7.70	475	N/A
MPO-IQ115B	87	0.80	101	88	5	6	7.70	475	N/A
MPO-IQ147B	87	1.00	123	107	6	6	11.08	525	579
MPO-IQ189B	87	1.30	160	139	6	7	14.46	660	692
MPO-IQ231B	87	1.60	197	171	7	7	17.84	776	807

## Optional Equipment:

- IQ outdoor reset option card kit (P/N: 105648-01)
- IQ LWCO option card (auto reset) (P/N: 102711-01)
- IQ LWCO option card (man. reset) (P/N: 102714-01)
- IQ high limit option card (auto reset) (P/N: 102717-01)
- 3.5" touch screen display (P/N: 105915-01)



For direct vent applications, order boiler as "less burner", and add Beckett NX burner and DV kit from listings below

## Dimensions (Inches)

Model	'A'	'B'	'C'
MPO-IQ84B	16-5/8	24	5
MPO-IQ115B	16-5/8	24	5
MPO-IQ147B	22-5/8	24	6
MPO-IQ189B	28-5/8	30	6
MPO-IQ231B	34-5/8	30	7

## Direct Vent Burners & Kits

Part No.	Description
103896-03	Beckett NX for MPO-IQ147B
103897-04	Beckett NX for MPO-IQ189B
103898-05	Beckett NX for MPO-IQ231B
102130-02	DV kit for MPO-IQ147B & MPO-IQ189B, 5"
102130-03	DV kit for MPO-IQ231B, 6"

